



UNITED STATES PATENT AND TRADEMARK OFFICE

UNITED STATES DEPARTMENT OF COMMERCE
United States Patent and Trademark Office
Address: COMMISSIONER FOR PATENTS
P.O. Box 1450
Alexandria, Virginia 22313-1450
www.uspto.gov

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/831,935	05/15/2001	Alon Atsmon	100/02232	2190

44909 7590 05/17/2005

WOLF, BLOCK, SCHORR & SOLIS-COHEN LLP
250 PARK AVENUE
NEW YORK, NY 10177

EXAMINER

LEMMA, SAMSON B

ART UNIT	PAPER NUMBER
----------	--------------

2132

DATE MAILED: 05/17/2005

Please find below and/or attached an Office communication concerning this application or proceeding.

Office Action Summary

Application No.

09/831,935

Applicant(s)

ATSMON, ALON

Examiner

Samson B. Lemma

Art Unit

2132

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) ☒ Responsive to communication(s) filed on 11 January 2005.
- 2a) ☒ This action is **FINAL**. 2b) ☐ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) ☒ Claim(s) 1-23 is/are pending in the application.
- 4a) Of the above claim(s) _____ is/are withdrawn from consideration.
- 5) ☐ Claim(s) _____ is/are allowed.
- 6) ☒ Claim(s) 1-23 is/are rejected.
- 7) ☐ Claim(s) _____ is/are objected to.
- 8) ☐ Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☐ The drawing(s) filed on _____ is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

- 12) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All b) ☐ Some * c) ☐ None of:
1. ☐ Certified copies of the priority documents have been received.
2. ☐ Certified copies of the priority documents have been received in Application No. _____.
3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

* See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

- 1) ☒ Notice of References Cited (PTO-892)
- 2) ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)
- 3) ☒ Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08)
Paper No(s)/Mail Date 11/26/04
- 4) ☐ Interview Summary (PTO-413)
Paper No(s)/Mail Date. _____
- 5) ☐ Notice of Informal Patent Application (PTO-152)
- 6) ☐ Other: _____

DETAILED ACTION

1. This office action is in replay to an amendment filed on January 11, 2005.

The independent claims 1 and 9 have been amended and **claims 1-23** are pending.

Response to Arguments

2. Applicant's arguments with respect to **claims 1-23** have been considered but are moot in view of the new ground(s) of rejection.

Claim Rejections - 35 USC § 102

3. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless –

(e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.

4. **Claims 1-8** are rejected under 35 U.S.C. 102(e) as being anticipated by **Derks** et al (hereinafter referred to as **Derks**) (U.S. Patent No. 6,021,119)

5. **As per claim 1**, Derks discloses a method of communicating with an electronic device, comprising:

providing a computer having an sound receiving and generating sub-system including a microphone; (Figure 1, ref. Num "32"; column 5, lines 40-52) (The host computer used by the instructor to make a voice communication has inherently has both the sound receiving and generating sub-system.)

providing a personal communicator which utilizes a communication network; [Column 2, lines 44-58; column 2, lines 7-18] (response unit is met a response unit)
initiating a connection by said computer, over said communications network, to said personal communicator ; [column 2, lines 51-60; column 1, lines 30-34] (When the instructor from the host system/computer having a both the microphone and speaker that can receive or generate sound wishes to accept a call from a particular individual, the host system initiates/sends a talk instructions to the response unit/personal communicator, in response to the talk instruction, the host computer through the base unit establishes an audio connection between the microphone of the response unit/personal communicator and the host system and the host unit/personal communicator transmits the audio response).

and

transmitting an audio responses from the personal communicator to the sound receiving and generating sub-system, in response to the connection initiation [Column 2, lines 51-60; column 2, lines 27-43; column 1, line 30-34] (Derks discloses that the personal communicator [column 2, line 51] (response unit is met personal communicator includes a microphone and the user input device) transmitting an audio response from the personal communicator/response unit to the sound

Art Unit: 2132

receiving and generating sub-system,[column 2, lines 56-57] (the host system is met to be the sound receiving and generating sub-system) in response to the connection initiation.[column 2, lines 51-60; column 1, lines 30-34] (When the instructor from the host system/computer having a both the microphone and speaker that can receive or generate sound wishes to accept a call from a particular individual, the host system initiates/sends a talk instructions to the response unit/personal communicator, in response to the talk instruction, the host computer through the base unit establishes an audio connection between the microphone of the response unit/personal communicator and the host system and the host unit/personal communicator transmits the audio response).

identifying said personal communicator responsive to an audio response of said personal communicator ; [column 5, lines 37-39](Derks discloses that the authenticity of each response units/callers/personal communicators is verified by analyzing the authentication signal/request sent by the caller by the phone manger which includes call verification using a DTMF sequence from each base unit.[column 5, lines 37-39]

6. **As per claim 2**, Derks discloses the method as applied to claim 1 above. Furthermore, Derks discloses a method wherein initiating a connection comprises directly accessing said communication networks from said computer using dedicated hardware. [column 2, lines 51-60; column 1, lines 30-34])
7. **As per claim 3**, Derks discloses the method as applied to claim 2 above. Furthermore, Derks discloses a method wherein said hardware comprises a dialer card.[column 5, lines 40-52](The dialer card is inherently included in the host computer.)

Art Unit: 2132

8. **As per claim 4**, Derks discloses the method as applied to claim 1 above. Furthermore, Derks discloses a method wherein initiating a connection comprises accessing a non-computer data network other than said communication network directly from said computer using dedicated hardware and utilizing a link between said non-computer network and said communications network. [column 2, lines 51-60; column 1, lines 30-34])
9. **As per claim 5**, Derks discloses the method as applied to claim 1 above. Furthermore, Derks discloses a method wherein Initiating a connection comprises requesting a second computer to create such a connection which request is made over a computer network. [column 2, lines 51-60; column 1, lines 30-34 and figure 1]
10. **As per claim 6**, Derks discloses the method as applied to claim 1 above. Furthermore, Derks discloses a method wherein said initiation by said computer causes said personal communicator to generate a distinct audio response.[column 5, lines 37-39](Derks discloses that the authenticity of each response units/callers/personal communicators is verified by analyzing the authentication signal/request sent by the caller by the phone manger which includes call verification using a DTMF sequence from each base unit.[column 5, lines 37-39]
11. **As per claim 7**, Derks discloses the method as applied to claim 6 above. Furthermore, Derks discloses a method comprising requesting, by said computer a distinctive audio response.[Derks discloses that the authenticity of each response units/callers/personal communicators is verified by analyzing

Art Unit: 2132

the authentication signal/request sent by the caller by the phone manger which includes call verification using a DTMF sequence from each base unit.[column 5, lines 37-39]

12. **As per claim 8**, Derks discloses the method as applied to claim 1 above. Furthermore, Derks discloses a method comprising transmitting data signals to said personal communicator to be acoustically sounded and received by said computer.[column 2, lines 7-60]

Claim Rejections - 35 USC § 103

13. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

14. **Claims 9-23** are rejected under 35 U.S.C. 103(a) as being unpatentable over **Derks** et al (hereinafter referred to as **Derks**) (U.S.Patent No. 6,021,119) in view of Mark (hereinafter refereed as Mark) (U.S. Patent No. 5,583,933)

15. **As per claim 9**, Derks discloses a method of authentication, comprising:
providing a computer having an sound receiving and generating sub-system including a microphone;(Figure 1, ref. Num "32"; column 5, lines 40-52) (The host computer used by the instructor to make a voice communication has inherently has both the sound receiving and generating sub-system.)

providing a personal communicator which utilizes a communication network; (Column 2, lines 44-58; column 2, lines 7-18)

opening a connection, over said communications network, between said

computer and said personal communicator; and (Derks discloses that the personal communicator [column 2, line 51] (response unit is met personal communicator

includes a microphone and the user input device) transmitting an audio response from the personal communicator/response unit to the sound receiving and generating sub-system,[column 2, lines 56-57] (the host system is met to be the sound receiving and generating sub-system) in response to the connection initiation.[column 2, lines 51-60; column 1, lines 30-34] (When the instructor from the host system/computer having a both the microphone and speaker that can receive or generate sound wishes to accept a call from a particular individual, the host system initiates/sends a talk instructions to the response unit/personal communicator, in response to the talk instruction, the host computer through the base unit establishes an audio connection between the microphone of the response unit/personal communicator and the host system and the host unit/personal communicator transmits the audio response).

Furthermore **Derks** discloses that the **personal communicator** [column 2, line 51]

(response unit is met personal communicator includes a microphone and the user input device)

transmitting an audio response from the personal communicator/response unit to the sound receiving and generating sub-system,[column 2, lines 56-57] (the host system is met to be the sound receiving and generating sub-system) **in response to the connection initiation.**[column 2, lines 51-60; column 1, lines 30-34] (When the instructor from the host system/computer having a both the microphone and speaker that can receive or generate sound wishes to accept a call from a particular individual, the host system initiates/sends a talk instructions to the response unit/personal

Art Unit: 2132

communicator, in response to the talk instruction, the host computer through the base unit establishes an audio connection between the microphone of the response unit/personal communicator and the host system and the host unit/personal communicator transmits the audio response).

Furthermore Derks discloses transmitting authenticating signal over a closed loop between the personal communicator and the computer that is in the opposite direction.[Column 5, lines 37-39]

(the authenticity of each response units/callers/personal communicators is verified by analyzing the authentication signal/request sent by the caller by the phone manger which includes call verification using a DTMF sequence from each base unit)

Derks does not explicitly teaches

transmitting authentication signals over a closed loop including both an audio transmission section between the computer and the personal communicator and a section over the communications network in a first direction.

However, Mark discloses the

transmitting authentication signals or the device identification information over a closed loop (between the computer or auto dialer and personal communicator which is the telephone used) including both an audio transmission section (the transmission of audio authentication signal first between the auto dialer or computer and personal communicator (telephone) over the communication network to reach to the switching circuit system. The switching circuit system authenticates the auto dialer or the computer after checking the database containing information about the auto-dialer and finally determines the computer or the device is authorized or unauthorized . (figure 6; column 34, lines 57-63; column 35, lines 18-42).

It would have been obvious to one having ordinary skill in the art

at the time the invention was made to combine the authentication techniques as per teachings of Mark in the first direction into method authentication taught by Derks in opposite direction in order to provided dual authentication signal transmitting in both the first direction and opposite direction for strengthening the security of the audio transmission.

16. **As of claim 10**, the combination of **Derks and Mark** disclose the method as applied to claim 9 above. Furthermore **Derks** discloses a method wherein said computer initiates opening said connection. [column 2, lines 51-60; column 1, lines 30-34] (When the instructor from the host system/computer having a both the microphone and speaker that can receive or generate sound wishes to accept a call from a particular individual, the host system initiates/sends a talk instructions to the response unit/personal communicator, in response to the talk instruction, the host computer through the base unit establishes an audio connection between the microphone of the response unit/personal communicator and the host system and the host unit/personal communicator transmits the audio response).

17. **As of claim 11**, the combination of **Derks and mark** disclose the method as applied to claim 9 above. Furthermore Derks discloses a method, wherein said personal communicator initiates opening said connection. [Abstract]

18. **As of claim 12**, the combination of **Derks and Mark** disclose the method as applied to claim 9 above. Furthermore Mark discloses a method wherein said authentication signals (device identification information) comprise sound waves

Art Unit: 2132

generated by said computer (auto dialer) and transmitted by audio to said personal communicator (telephone). (column 37, lines 57-63; column 35, lines 1-9)

19. **As of claim 13** the combination of **Derks and Mark** disclose the method as applied to claim 9 above. Furthermore Mark discloses a method wherein said authentication signals (device identification information) comprise sound waves generated by a remote computer (auto dialer which is remotely located) and transmitted by said communication network to said personal communicator (telephone at receiving or destination end). (column 35, lines 18-35; figure 6, step "1110") (It is interpreted by the office the personal communicator in this case is the the telephone that is supposed to receive the long distance call at destination end.)

20. **As of claim 14**, the combination of **Derks and Mark** disclose the method as applied to claim 13 above. Furthermore Mark discloses a method wherein said remote communicator initiates said connection. (column 25, lines 59-63; column 35, lines 35-42).

21. **As of claim 15**, the combination of **Derks and Mark** disclose the method as applied to claim 14 above. Furthermore Mark discloses a method comprising, said remote computer (auto dialer) causing said personal communicator (telephone) to generate sound and detecting said sound by said computer (auto dialer) as an indication of a request for authentication. (column 35, lines 33-42)

22. **As of claim 16**, the combination of **Derks and Mark** disclose the method as applied to claim 9 above. Furthermore Mark discloses a method wherein said authentication signals comprises at least mostly sonic

Art Unit: 2132

frequencies. (column 25, lines 53-63; column 35, lines 18-25) (It is interpreted by the office that since the sonic frequencies are those below 15, 000 cycles per second and can be heard by the normal human ear. The encoding method that has been used to encode the authentication signal and decoding it later at the switching circuit system can also be applied if the authentication signal is mostly sonic frequencies and this authentication signal on the auto dialer can also be initialized at the calibration stage.)

23. **As of claim 17**, the combination of **Derks and Mark** disclose the method as applied to claim 16 above. Furthermore Mark discloses a method wherein said signals are encoded using a DTMF-like encoding scheme. (column 35, lines 18-25).

24. **As of claim 18**, the combination of **Derks and Mark** disclose the method as applied to claim 9 above. Furthermore Mark discloses a method wherein said authentication signals comprise ultrasonic frequencies. (column 35, lines 18-25) (It is interpreted by the office that since the supersonic frequencies are those above 15, 000 cycles per second and is beyond the range of normal human hearing .This authentication signal or the auto dialer identification information can be initialized into the device at the calibration stage.)

25. **As of claim 19**, the combination of **Derks and Mark** disclose the method as applied to any of the claim 1-18 above. Furthermore Derk discloses a method wherein said personal communicator comprises a cellular telephone. (figure 1, ref. Num "24" and column 2, lines 14-42) (The response unit has a features of the cellular Telephone)

26. **As of claim 20**, the combination of **Derks and Mark** disclose the

Art Unit: 2132

method as applied to any of the claims 1-18 above. Furthermore Derk discloses the method wherein said personal communicator comprises a programmable cellular telephone. (figure 1, ref. Num "24" and column 2, lines 14-42) (The response unit has a features of the cellular Telephone and is capable of being programmable see figure 3)

27. **As of claim 21**, the combination of **Derks** and Mark disclose the method as applied to any of the claims 1-18 above. Furthermore Mark discloses a method wherein said cellular telephone comprises a JAVA programmable cellular telephone.(column 34, lines 57-59; column 5, lines 50-52). (It is interpreted by the office that using regular telephone as personal communicator to communicate with computer (auto dialer) meets the recitation of this claim .)

28. **As of claim 22**, the combination of **Derks** and Mark disclose the method as applied to any of the claims 1-18 above. Furthermore Derks discloses a method wherein said personal communicator comprises a beeper. (figure 1, ref. Num "24" and column 2, lines 14-42) (The response unit has a features of a beeper.)

29. **As of claim 23**, the combination of **Derks and Mark** discloses the method as applied to any of the claims 1-18 above. Furthermore Derks discloses a method wherein said personal communicator comprises a wireless telephone. (figure 1, ref. Num "24" and column 2, lines 14-42) (The response is functioning like wireless telephone.)

Conclusion

Art Unit: 2132

30. Applicant's amendment necessitated the new ground(s) of rejection presented in this Office action. Accordingly, **THIS ACTION IS MADE FINAL**. See MPEP § 706.07(a). Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the date of this final action.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Samson B Lemma whose telephone number is 571-272-3806. The examiner can normally be reached on Monday-Friday (8:00 am---4: 30 pm).

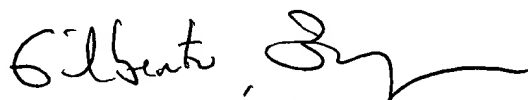
If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, BARRON JR GILBERTO can be reached on 571-272-3799. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

SAMSON LEMMA

S.L.

April 25, 2005



GILBERTO BARRON JR.
SUPERVISORY PATENT EXAMINER
TECHNOLOGY CENTER 2100